

"IV" – claim 39, drawn to a method of displaying and manipulating data to facilitate identification, trends, correlations or other useful relationships among the data, including a step of entities and displaying the graphical representations.

In addition to the election of an invention, the Examiner asserted various election of species requirements, as follows.

If invention "I" is elected, the Examiner set forth three election of species requirements:

1. Distance value
 - a. squared Euclidean distance
 - b. Pearson correlation coefficient

The Examiner indicated that claims 1-13, 16-22, 40-50 and 56-60 are generic to these species.

2. Value for de-emphasizing
 - a. null value
 - b. negative pseudo-data value

The Examiner indicated that claims 1-20, 40-50 and 56-60 are generic to these species.

3. Generating pseudo-data vector.
 - a. arbitrary data values
 - b. values inputted by a user

The Examiner indicated that claims 1-15, 18-22, 40-47, 50 and 56-60 are generic to these species.

If invention "II" is elected, the Examiner set forth the following election of species requirement:

1. Distance value
 - a. squared Euclidean distance
 - b. Pearson correlation coefficient

The Examiner indicated that claims 23-30, 34-35, 51-55 and 61-64 are generic to these species.

RESPONSE

In response to the restriction requirement, Applicant elects Group I, with the species identified by “Euclidean distance”, “pseudo-data value” and “values inputted by a user”, with traverse. It is respectfully submitted that claims 1-14, 17-20, 22, 40-47, 49-50 and 56-60 read on the elected invention and species.

Applicant respectfully submits that at least the invention of “Group II, Euclidean distance species”, should be considered together with the invention and species elected herein. The Examiner asserted that Groups I and II are distinct if they do not overlap in scope, i.e. are mutually exclusive, are not obvious variants, and are either not capable of use together or can have a materially different design, mode of operation, function or effect. In this regard, the Examiner asserted that the method of Group I involves a step for reordering the order of arrangement of the rows of data in the $n \times m$ matrix, whereas the method of Group II involves a step of reordering the order of arrangement of the first x rows of data in the $n \times m$ matrix wherein x is less than or equal to m and is a preset positive integer.

Applicant respectfully submits that the features described by the Examiner are not mutually exclusive. For example, if $x = m$, then both the methods of the independent claims of Group I and Group II reorder all m rows of the $n \times m$ matrix. Accordingly, Applicant respectfully requests that the Examiner also examine claims 23-31, 34-35, 51-55 and 61-64 along with the elected claims above.

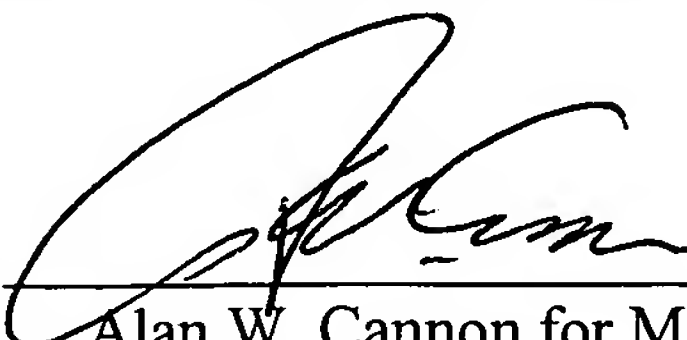
Conclusion

Applicant respectfully submits that a proper response has been made to the Restriction Requirement, and that all of the claims in this application are in condition for allowance, which action is requested. If the Examiner finds that a telephone conference would expedite the prosecution of this application, please telephone the undersigned at the number provided.

The Commissioner is hereby authorized to charge any underpayment of fees associated with this communication, including any necessary fees for extensions of time, or credit any overpayment to Deposit Account No. 50-1078, order number 10031032-1.

Respectfully submitted,
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